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CLAIMS

We claim:

- 5 1. A DNA compound that comprises an isolated DNA sequence encoding SEQ ID NO: 2.
 - 2. The DNA compound of Claim 1 which comprises the isolated DNA sequence which is SEQ ID NO: 1.
 - 3. A vector comprising an isolated DNA sequence of Claim 1.
 - 4. A vector comprising an isolated DNA sequence of Claim 2.
- 15 5. A method for constructing a transformed host cell capable of expressing SEQ ND NO: 2, said method comprising transforming a host cell with a recombinant DNA vector that comprises an isolated DNA sequence of Claim 1.
- 20 6. A method for expressing SEQ ID NO: 2 in a transformed host cell said method comprising culturing said transformed host cell of Claim 5 under conditions suitable for gene expression.
 - 7. An isolated DNA molecule of Claim 1 or a portion thereof, which is labeled with a detectable moiety.
 - 8. A host cell containing the vector of Claim 3.
- 30 9. A host cell containing the vector of Claim 4.
 - 10. A method for determining the fungal MDR inhibition .?activity of a compound which comprises:
- a) placing a culture of fungal cells, transformed with 35 a vector capable of expressing atrD, in the presence of:

- (i) an antifungal agent to which said fungal cell ; is resistant, but to which said fungal cell is sensitive in a its untransformed state;
- (ii) a compound suspected of possessing

 5 ¶ Aspergillus nidulans MDR inhibition activity; and

 / b) determining the fungal MDR inhibition activity of
 said compound by measuring the ability of the antifungal
 agent to inhibit the growth of said fungal cell.
- 10 . 11. A method of Claim 10 wherein the fungal cell is Saccharomyces cerevisiae.
 - 12. The protein of SEQ ID No. 2 in purified form.
- 13. A strain of A. nidulans wherein said strain carries a gene disruption or gene replacement at the atrD locus such that said strain does not produce the atrD protein product.
- 14. A method for identifying an antifungal compound20 comprising the steps of:
 - a. culturing in the presence of a test compound a strain of claim 13;
 - b. culturing said strain in the absence of said test compound; and
- 25 c. comparing the growth of said strain in step (a) with the growth in step (b).